

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/03

Date Received: 05/28/03

Project: % of Acid, PO# M90943, F&BI 305237

Date Analyzed: 05/30/03

**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES
FOR PERCENT OF ACID**

Sample ID

Laboratory ID

Percent of Acid

M90943A Large Tank

305237-01

9.5

M90943B Small Tank

305237-02

11

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Date Analyzed: 05/30/03

**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Sample ID

Laboratory ID

Specific Gravity

M90943A Large Tank

305237-01

1.23

M90943B Small Tank

305237-02

1.30

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Project: % of Acid, PO# M90943, F&BI 305237

Date Extracted: 06/02/03

Date Analyzed: 06/02/03

**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY INDUCTIVELY COUPLED PLASMA (ICP)
EMISSION SPECTROSCOPY**

The Metals Were Found at Approximate Levels Indicated
Results Reported as mg/L (ppm)

Sample ID: M90943A Large Tank

Laboratory ID: 305237-01

Arsenic	<1,000 ppm
Cadmium	<1,000 ppm
Chromium	14,000 ppm
Copper	2,100 ppm
Iron	47,000 ppm
Lead	<1,000 ppm
Nickel	13,000 ppm
Silver	<1,000 ppm
Zinc	<1,000 ppm

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**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY INDUCTIVELY COUPLED PLASMA (ICP)
EMISSION SPECTROSCOPY**

The Metals Were Found at Approximate Levels Indicated
Results Reported as mg/L (ppm)

Sample ID: M90943B Small Tank

Laboratory ID: 305237-02

Arsenic	<1,000 ppm
Cadmium	<1,000 ppm
Chromium	14,000 ppm
Copper	33,000 ppm
Iron	48,000 ppm
Lead	<1,000 ppm
Nickel	33,000 ppm
Silver	<1,000 ppm
Zinc	<1,000 ppm

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**QUALITY ASSURANCE RESULTS
FROM ANALYSIS FOR PERCENT OF ACID**

Laboratory Code: 305237-02 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Percent of Acid	11	11	0	0-20

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Project: % of Acid, PO# M90943, F&BI 305237

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF AQUEOUS SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Laboratory Code: 305237-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Specific Gravity	1.23	1.22	0.82	0-2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 4, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

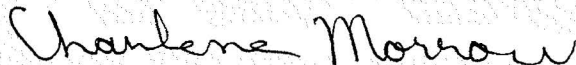
Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 28, 2003 from the % of Acid, PO# M90943, F&BI 305237 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0604R.DOC

FRIEDMAN & BRUYA, INC.

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June 4, 2003

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INVOICE #03ACU0604-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project % of Acid, PO# M90943, F&BI 305237 - Results of testing requested
by Gerry Thompson for material submitted on May 28, 2003.

2 samples screened for Total Fe, As, Cd, Cr, Cu, Pb Ni, Ag, Zn by Method 6010B @ \$150 per sample	\$ 300.00
2 samples analyzed for Specific Gravity @ \$25 per sample	50.00
2 samples analyzed for Percent Acid Content @ \$50 per sample	<u>100.00</u>
Amount Due	\$ 450.00

FEDERAL TAX ID #(b) (6)